CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

An ISO 9001:2008 Certified Company

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/BTR/W.No.14/SDBC/Sp_Wa/2016-17 23.09.2016

Specific Gravity And Water Absorption Test

IS: 2386 Part III

Client	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
Agency	**Mr. B.T. Ravikumar,** No.180, 3rd Main, H.V.R. Layout, Magadi Road, Bangalore – 560 079.
Name of the Work	Improvements to Road, Drain, Foot path BTS Layout and Sheshadri Layout in Bagalagunte in Ward No.14, BBMP, Bangalore.
Reference	BBMP/DZ/AEE/TDSD/PR/215/2016-17 Dated: 03.08.2016
Type of Mix	Semi Dense Bituminous Concrete
Source / Location	Hotmix Plant, Bangalore
Date of Testing	23.09.2016

Sl. No.	Details	Notation	Test Number			Mean Value
			Test 1	Test 2	Test 3	
1	Weight of aggregate suspended in water with the basket	W_1 g	2021	2023	2020	
2	Weight of basket suspended in water	W_2 g	755	2020	755	
3	Weight of saturated aggregate in water	$(W_1 - W_2) = W_s$ g	1266	1268	1265	
4	Weight of saturated surface dry aggregate in air	W_3 g	2013	2012	2011	
5	Weight of water equal to the volume of the aggregate	$(W_3 - W_S)$ g	747	744	746	
6	Weight of oven dried aggregate	W_4 g	1996	1997	1994	
7	Specific Gravity	$W_4/(W_3-W_S)$	2.672	2.684	2.673	2.676
8	Apparent Specific gravity	$W_4/(W_4-W_S)$	2.734	2.739	2.735	2.736
9	Water Absorption	$((W_3-W_4)*100)/W_4$	0.85%	0.75%	0.85%	0.82%

Comments:

→ Maximum allowable Aggregate Water absorption value for Semi Dense Bituminous Concrete is 2.0%

Note:

Þ This test report should not be reproduced except in full, without written approval of the laboratory

Þ The results indicated above are based on the tests carried out on the samples received in the laboratory

Þ Any Query regarding the report must be reported within 30 days from the date of testing.

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